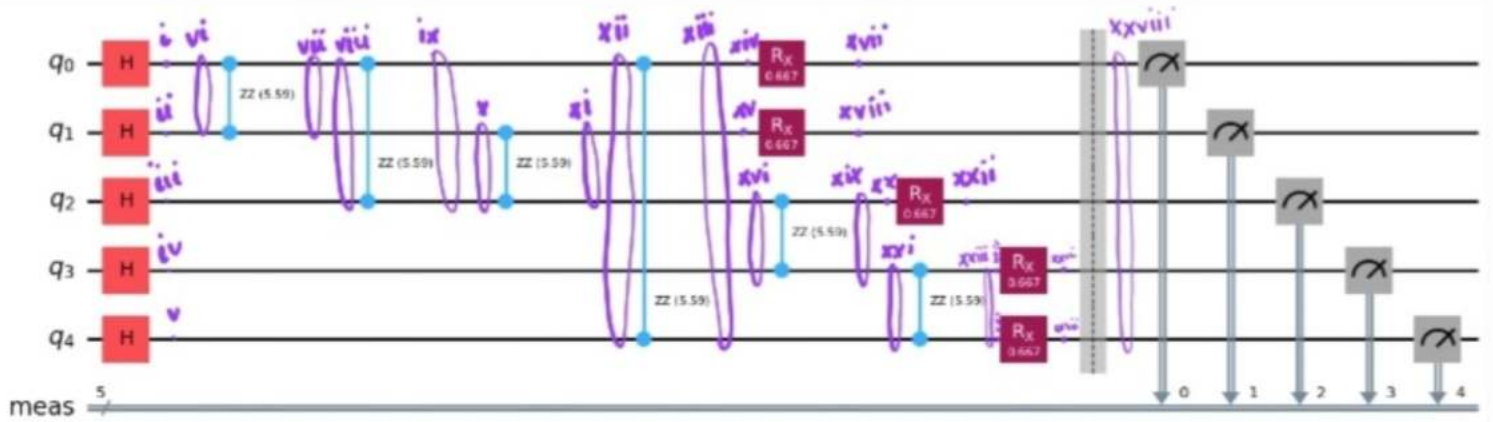


$$x_{ii} = x_i \otimes (i \otimes v)$$

$$= \frac{1}{2\sqrt{2}} \begin{bmatrix} e^{-i(8.385)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{-i(8.385)} \end{bmatrix} \otimes \left(\begin{bmatrix} \frac{1}{\sqrt{2}} \\ \frac{1}{\sqrt{2}} \end{bmatrix} \otimes \begin{bmatrix} \frac{1}{\sqrt{2}} \\ \frac{1}{\sqrt{2}} \end{bmatrix} \right) = \frac{1}{2\sqrt{2}} \begin{bmatrix} e^{i(3.85)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{-i(8.385)} \end{bmatrix} \otimes \frac{1}{2} \begin{bmatrix} 1 \\ 1 \\ 1 \\ 1 \end{bmatrix}$$

$$= \frac{1}{4\sqrt{2}} \begin{bmatrix} e^{-i(8.385)} \\ e^{-i(8.385)} \\ e^{-i(8.385)} \\ e^{-i(8.385)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{i(2.795)} \\ e^{-i(8.385)} \\ e^{-i(8.385)} \\ e^{-i(8.385)} \\ e^{-i(8.385)} \end{bmatrix}$$

$$x_{iii} = \frac{1}{4\sqrt{2}} \begin{bmatrix} e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{i(5.59)} \\ e^{i(5.59)} \\ e^{i(5.59)} \\ e^{i(5.59)} \\ e^{i(5.59)} \\ e^{i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \end{bmatrix}$$



$$xiv = \frac{1}{4\sqrt{2}}$$

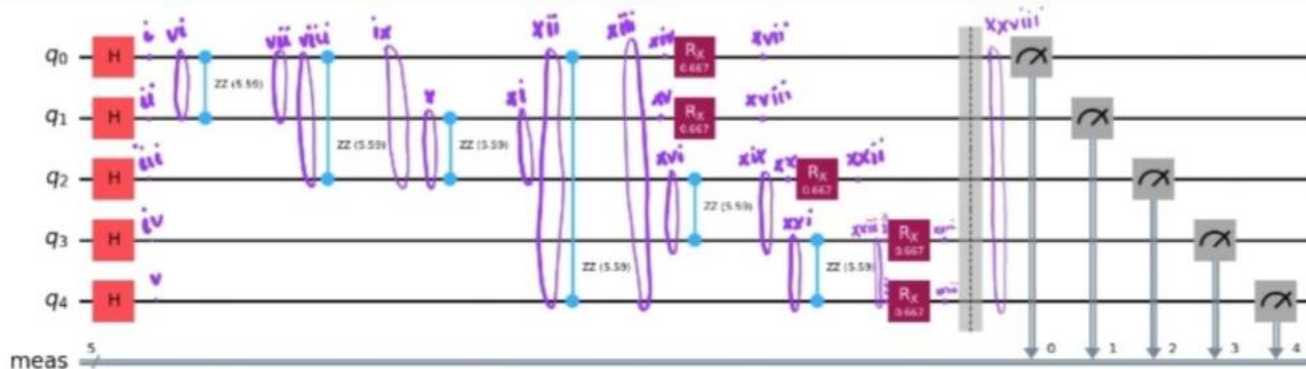
$$\begin{bmatrix} e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ | \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ | \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \end{bmatrix}$$

$$xv = \frac{1}{4\sqrt{2}}$$

$$\begin{bmatrix} e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ | \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ | \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \end{bmatrix}$$

$$xvi = \frac{1}{4\sqrt{2}}$$

$$\begin{bmatrix} e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ | \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ e^{-i(11.18)} \\ e^{-i(5.59)} \\ | \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \\ e^{-i(5.59)} \end{bmatrix}$$

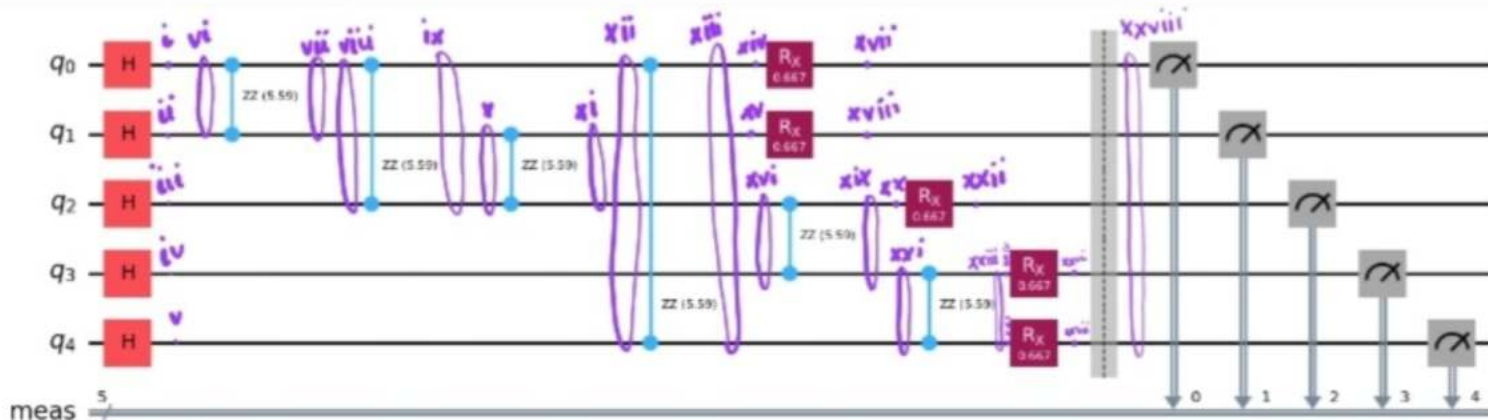


$$xvii = R_x(0.667) \otimes xiv$$

$$xviii = R_x \otimes xv$$

$$\begin{aligned}
 &0.137466 \times e^{i1.056615} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i1.056615} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i1.056615} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i1.056615} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006} \\
 &0.137466 \times e^{i-0.329756} \\
 &0.208814 \times e^{i-0.908006}
 \end{aligned}$$

$$\begin{aligned}
 &0.137466 \times e^{i0.723115} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i0.723115} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i0.723115} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i0.723115} \\
 &0.208814 \times e^{i0.478365} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506} \\
 &0.137466 \times e^{i-0.66256} \\
 &0.208814 \times e^{i-1.241506}
 \end{aligned}$$



$$\begin{aligned}
 Xix = & \begin{bmatrix} 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \end{bmatrix}
 \end{aligned}$$

XX =

$$\begin{aligned}
 XX = & \begin{bmatrix} 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i-2.071885} \\ 0.208814 \times e^{i-2.650135} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \\ 0.137466 \times e^{i2.131744} \\ 0.208814 \times e^{i2.553494} \end{bmatrix}
 \end{aligned}$$

